Docket No.: 3298.1001-000
Title: MULTIPLE DETERMINANTS

Inventor: Brian Leyland-Jones

CYP3A4

(Midazolam) MDZ

(1-Hydroxymidazolam) 1-OH-MDZ

le: MULTIPLE DETERMINANTS FOR

Aventor: Brian Leyland-Jones

NAT1

p-ASA (p-aminosalicylic acid)

Acetyl-pASA (acetyl-p-aminosalicylic acid)

Title: MULTIPLE DETERMINANTS FOR

Inventor: Brian Leyland-Jones

CYP1A2

$$H_3C$$
 CH_3
 CH_3

Caffeine (1,3,7-trimethylxanthine)

1,7-DMX (1,7-dimethylxanthine)

1,7-DMU (1,7-dimethyluracil)

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Docket No.: 3298.1001-000
tle: MULTIPLE DETERMINANTS FOR Inventor: Brian Leyland-Jones

CYP2A6

Coumarin

7-Hydroxycoumarin

T MULTIPLE DETERMINANTS FOR...

In entor: Brian Leyland-Jones

CYP2C19

R-(-)-Mephenytoin

S-(+)-Mephenytoin

Title SULTIPLE DETERMINANTS FOR...... Inventor: Brian Leyland-Jones

CYP2C9

(s)-Ibuprofen

2-carboxyibuprofen

Docket No.: 3298.1001-000

Colo: MULTIPLE DETERMINANTS FOR.

Inventor: Brian Leyland-Jones

CYP2D6

Dextromethorphan

Dextrorphan

: MULTIPLE DETERMINANTS FOR...

Inventor: Brian Leyland-Jones

CYP2E1

Clorzoxazone

6-Hydroxychlorzoazone

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Title: MULTIPLE DETERMINANTS R...

Inventor: Brian Leyland-Jones

NAT2

1X (1-methylxanthine)

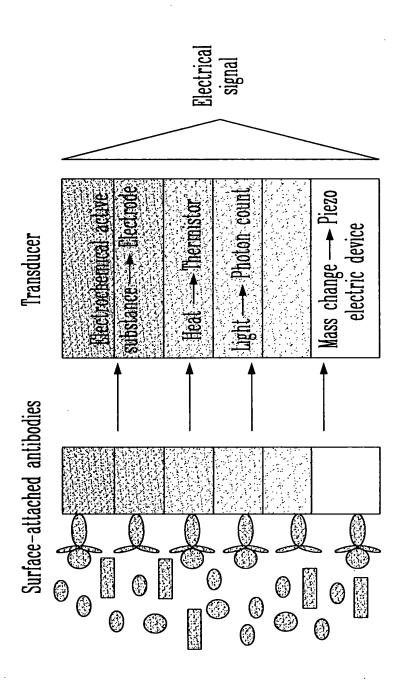
$$H_3C$$
 NH_2
 CH_3
 NH_2

AAMU (5-acetamino-6-amino-methyluracil)

$$H_3C$$
 NH
 CH_3
 CH_3
 CH_3

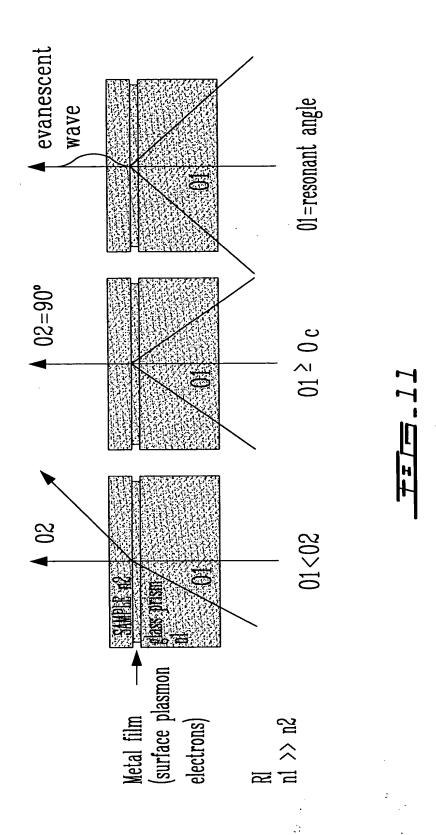
AFMU (5-acetamino-6-formylamino-methyluracil).

Docket No.: 3298.1001-000 Title: MULTIPLE DETERMINANTS FO Inventor: Brian Leyland-Jones

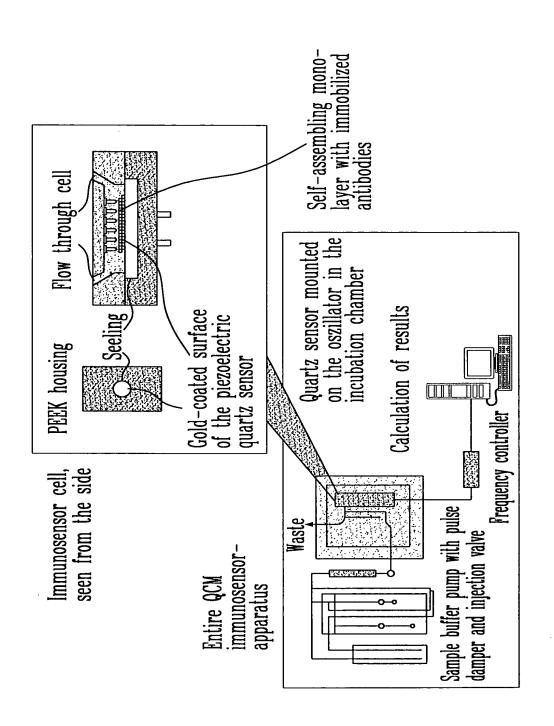


Docket No.: 3298.1001-000

E: MULTIPLE DETERMINANTS FOR.
Inventor: Brian Leyland-Jones



Docket No.: 3298.1001-000 tle: MULTIPLE DETERMINANTS FOR Inventor: Brian Leyland-Jones



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Title ULTIPLE DETERMINANTS FOR......

Inventor: Brian Leyland-Jones

AAMU-hemisuccinic acid

1 methyl xanthine-8-propionic acid

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MULTIPLE DETERMINANTS FOR....

Inventor: Brian Leyland-Jones

Derivatives of AAMU (5-acetamino-6-amino-3-methyluracil) or AFMU (5-acetamino-6-formylamino-3-methyluracil)

CH₃

$$NH-C-X$$
 $NH-Y$
 $NH-Y$

X

$$(CH_2)n-COOH$$

where n = 2,3 or 4

$$(CH_2) n - C - NH - NH_2$$

$$(CH_2) n - C - NH - (CH_2) n - NH_2$$

$$CH_2-X'$$

where X' is I, Br, or Cl

$$CH_2-S--(CH_2)n-NH_2$$

$$\operatorname{ch}_2$$
- $\operatorname{s-ch}_2$ - ch_2 - oh

Title: MULTIPLE DETERMINANTS F

Inventor: Brian Leyland-Jones

Derivatives of AAMU (5-acetamino-6-amino-3-methyluracil) or AFMU (5-acetamino-6-formylamino-3-methyluracil)

$$\begin{array}{c|c}
X & O & O & O \\
N & NH-C-CH \\
NH-Y & H
\end{array}$$

X

$$(CH_2)$$
 $n-COOH$

where n = 2,3 or 4

$$(CH_2)n-C-NH-NH_2$$

$$(CH_2) n - C - NH - (CH_2) n - NH_2$$

$$CH_2-X'$$

where X' is I, Br, or Cl

$$\mathrm{CH_2}\mathrm{-S}\mathrm{--}$$
 ($\mathrm{CH_2}$) $\mathrm{n}\mathrm{-NH_2}$

$$\mathrm{CH_2} - \mathrm{S} - \mathrm{CH_2} - \mathrm{CH_2} - \mathrm{OH}$$

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Title: MULTIPLE DETERMINANTS DE

Inventor: Brian Leyland-Jones

Derivatives of 1X (methylxanthine)

$$\begin{array}{c|c}
O & M & M \\
\hline
O & M & M \\
\hline
O & M & M
\end{array}$$

 \mathbf{X}

$$(CH_2)n-COOH$$

where n = 2,3 or 4

$$(CH_2)n-C-NH-NH_2$$

$$(CH_2) n - C - NH - (CH_2) n - NH_2$$

$$(CH_2)n-C-NH-(CH_2)n-SH$$

MULTIPLE DETERMINANTS FOR...

Inventor: Brian Leyland-Jones

Derivatives of 1X (methylxanthine)

$$X$$
 N
 N
 N
 N
 N
 N
 N
 N

X

$$(CH_2)n-COOH$$

where n = 2,3 or 4

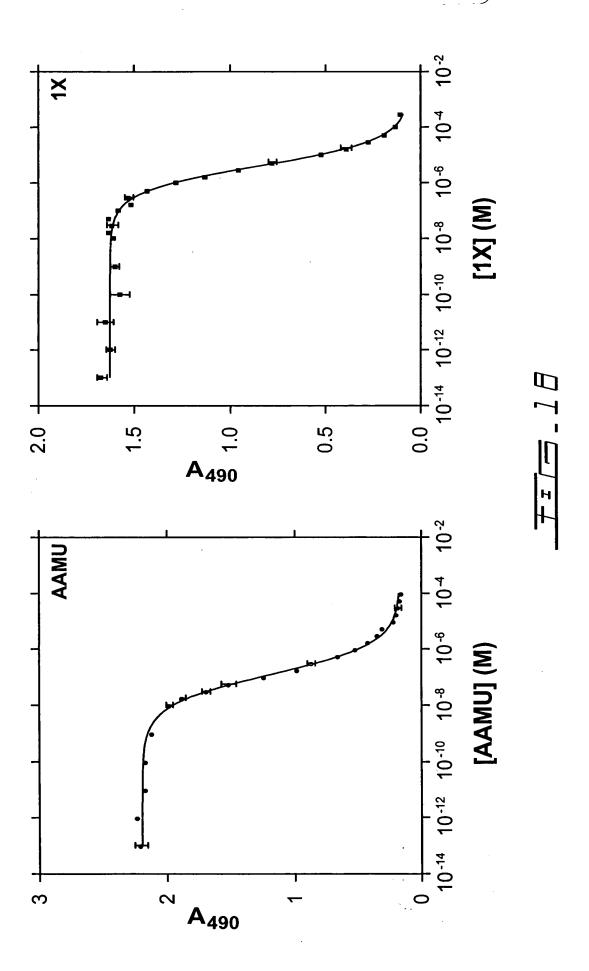
$$(CH_2)$$
 $n-C-NH-NH_2$

$$(CH_2) n - C - NH - (CH_2) n - NH_2$$

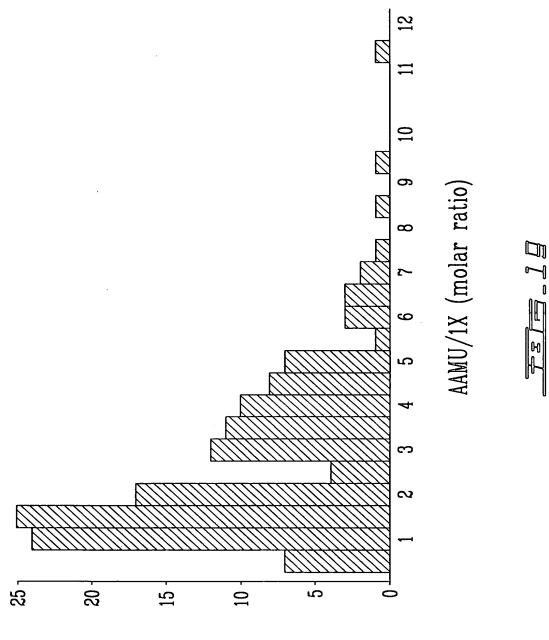
$$(CH_2) n - C - NH - (CH_2) n - SH$$

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Inventor: Brian Leyland-Jones



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Frequency

e: MULTIPLE DETERMINANTS FOR

nventor: Brian Leyland-Jones

Caffeine derivative

1,7-dimethylxanthine derivative

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1,7-dimethyluric acid derivative

Docket No.: 3298.1001-000

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Inventor: Brian Leyland-Jones

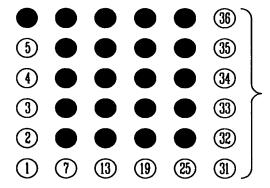
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	-	2	က	4	5	9	7	80	6	01	=	12
A	BIK	STD8	STD16	SI	83	S5	SI	S3	S2	BIK	STD8	STD16
В	STD1	STD9	STD17	S2	S10	S6	SS	S10	9S	STD1	STD9	STD17
ပ	STD2	STD10	STD18	S3	S11	S7	S3	S11	S7	STDS	STD10	STD18
Q	STD3	STD11	STD19	S4	S12	S8	S4	S12	S8	STD3	STD11	STD19
드	STD4	STD12	STD20	S5	Si	S9	S5	S1	83	STD4	STD12	STD20
C±4	STD5	STD13	STD21	S6	S2	S10	S6	25	S10	STD5	STD13	STD21
5	STD6	STD14	STD22	S7	83	S11	S7	S3	S11	STD6	STD14	STD22
H	STD7	STĎI5	STD23	88	S4	S12	88	S4	S12	STD?	STD15	STD23

Sitle: MULTIPLE DETERMINANTS FO

inventor: Brian Leyland-Jones

6X6 ARRAY



ARRAY LAYOUT:

ALIGNMENT MARKERS

BUFFER BLANKS

ANTIGENS

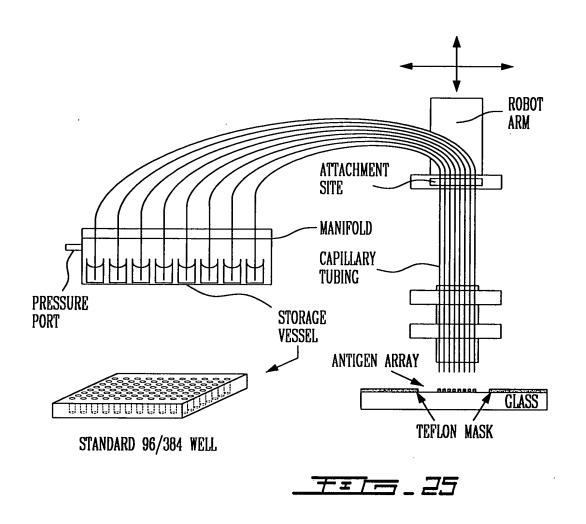
ANTIGEN KEY:

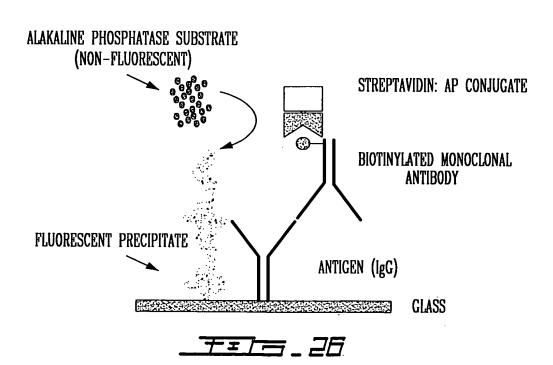
- 1. BIOTINYLATED BSA MARKER
- 2-6. BUFFER BLANKS
- 7. NAT2: AAMU
- 8. BIOTINYLATED BSA MARKER
- NAT2: 1X
- 10. NAT1: pASA
- 11. NAT1: ACETYL-pASA
- 12. CYP1A2: CAFFEINÉ
- 13. BIOTINYLATED BSA MARKER
- 14. CYP1A2: 1,7-DMX
- 15. CYP1A2: 1,7-DMU
- 16. CYP2A6: COMARIN
- 17. CYP2A6: 7-HYDROXYCOUMARIN
- 18. CYP2C19: R- (-) -MEPHENYTOIN
- 19. BIOTINYLATED BSÁ MARKER
- 20. CYP2C19: S- (+) -MEPHENYTOIN
- 21. CYP2C9: DICLOFENAC
- 22. CYP2C9: 4-HYDROXYDICLOFENAC
- 23. CYP2D6: DEXTROMETHORPHAN
- 24. CYP2D6: DEXTRORPHAN
- 25. BIOTINYLATED BSA MARKER
- 26. CYP2E1: CHLORZOXAZONE
- 27. CYP2E1: 6-HYDROXYCHLORZOXAZONE
- 28. CYP3A4: MIDAZOLAM
- 29. CYP3A4: 1-HYDROXYMIDAZOLAM
- 30. BUFFER BLANK
- 31-36. BIOTINYLATED BSA MARKER

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MULTIPLE DETERMINANTS FOR....

Inventor: Brian Leyland-Jones

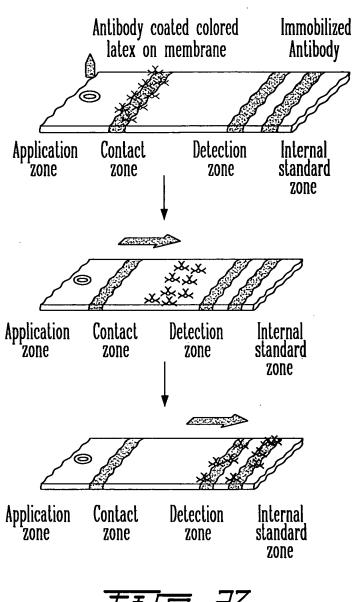




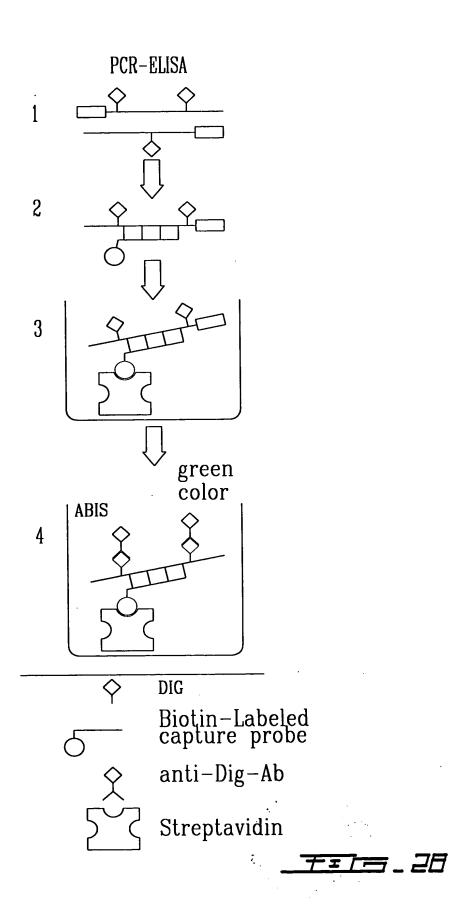
e: MULTIPLE DETERMINANTS FOR

inventor: Brian Leyland-Jones

Rapid Immunassay (Dipstick)

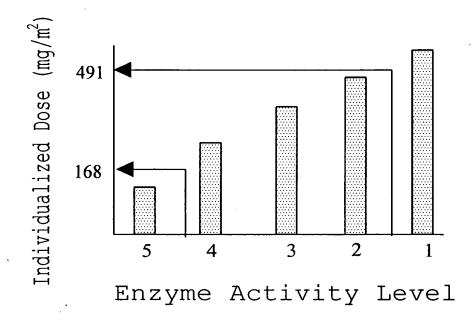


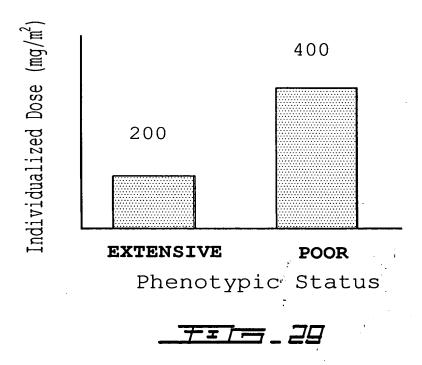
tle: MULTIPLE DETERMINANTS FOR ventor: Brian Leyland-Jones



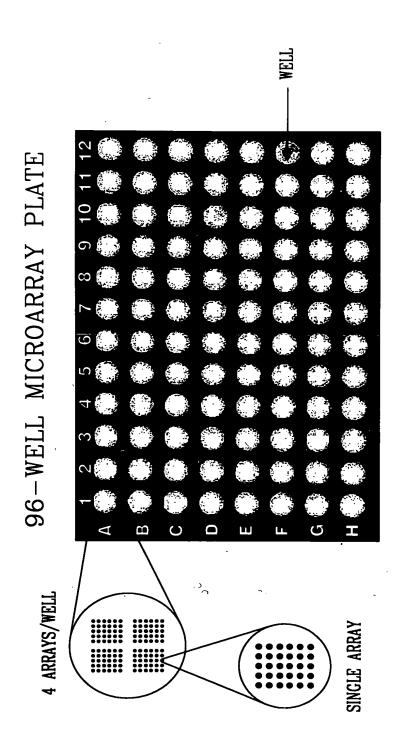
Title: MULTIPLE DETERMINANTS FO

Inventor: Brian Leyland-Jones





Docket No.: 3298.1001-000
Tele: MULTIPLE DETERMINANTS FOR ventor: Brian Leyland-Jones



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